

Fig. 1 (Prior Art)

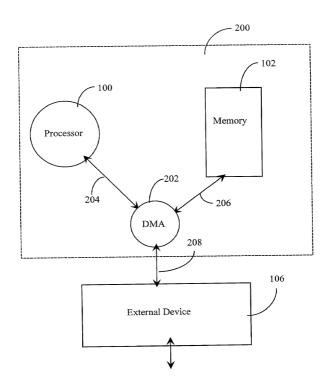


Fig. 2 (Prior Art)

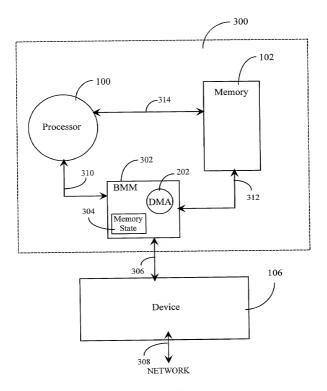


Fig. 3

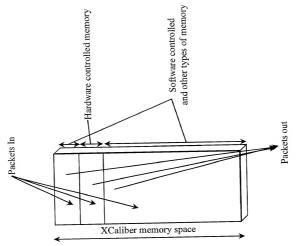
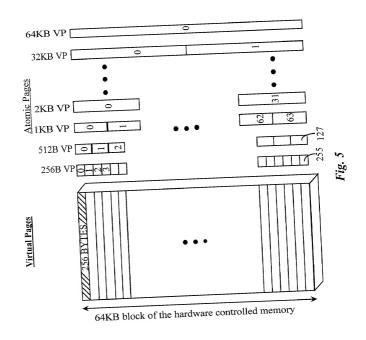


Fig. 4



Allocation algorithm implementation

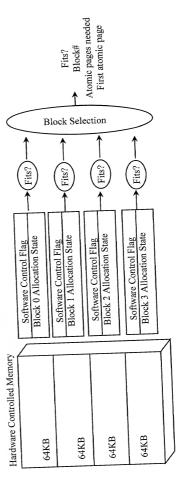
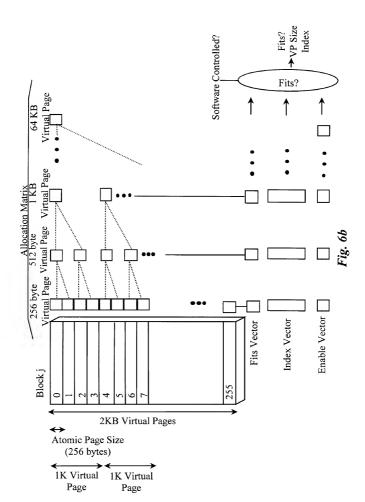


Fig. 6a



Allocation Matrix 1 KB Virtual Page 256 byte Virtual Page S12 byte Virtual Page Packet of 256 bytes Block 0 Atomic Page 0 1 2 3 2 1 4 5 3⊠ 6 Y 6 N Fits Vector Index Vector N Enable Vector Fig. 7a

Allocation Matrix ──Virtual Page Virtual Page 512 byte 256 byte Packet of 256 bytes Block 1 Atomic Page 2 3 2 $1 \square$ 4 5 3 6 Fits Vector Y Y 3 N Index Vector Enable Vector Y

Fig. 7b

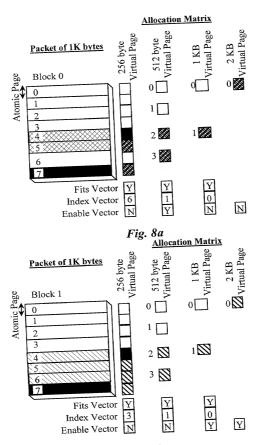


Fig. 8b

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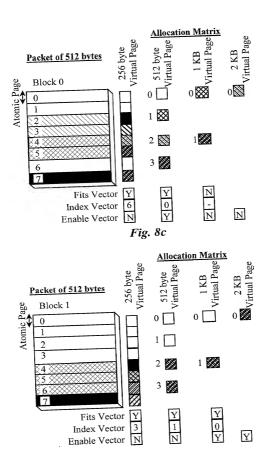


Fig. 8d

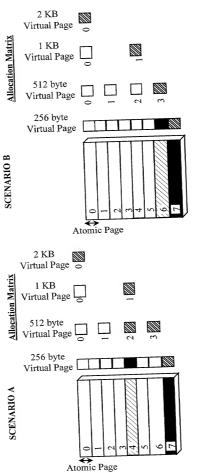


Fig. 9

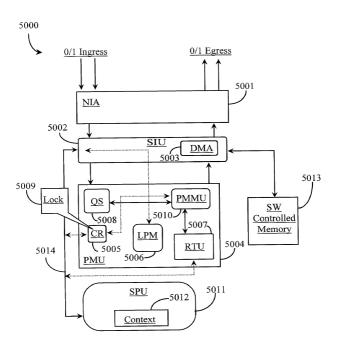


Fig. 10

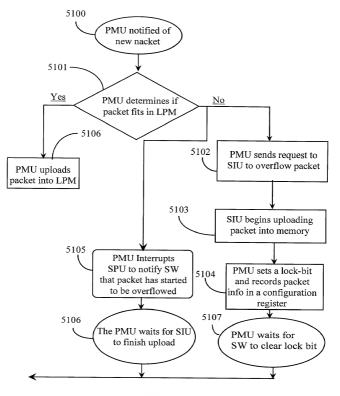


Fig. 11

Overflow Retrieve Operation

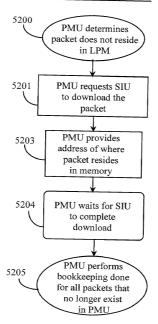


Fig. 12